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Software Development 1

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## Lab 6 UML Diagrams

### 9.1

Rectangle
<ul style="list-style-type: none"><li>- width: double</li><li>- height: double</li></ul>
<ul style="list-style-type: none"><li>+ getArea(): double</li><li>+ getPerimeter(): double</li><li>+ getWidth(): double</li><li>+ getHeight(): double</li></ul>

### 9.7

Account
<ul style="list-style-type: none"><li>- id: int</li><li>- Balance: double</li><li>- annualinterestRate: double</li><li>- dateCreated : Date</li></ul>
<ul style="list-style-type: none"><li>+ withdraw(): void</li><li>+ deposit(): void</li><li>+ getId(): int</li><li>+ getBalance(): int</li><li>+ getAnnualinterestRate(): double</li><li>+ getMonthlyInterestRate(): double</li><li>+ getMonthlyInterest(): double</li><li>+ getDateCreated(): Date</li><li>+ setId(int id): void</li><li>+ setBalance(double balance): void</li><li>+ setAnnualInterestRate(double annualInterestRate): void</li></ul>

### 9.11

LinearEquation
<ul style="list-style-type: none"> <li>- a: double</li> <li>- b: double</li> <li>- c: double</li> <li>- d: double</li> <li>- e: double</li> <li>- f: double</li> </ul>
<ul style="list-style-type: none"> <li>+ getA(): double</li> <li>+ getB(): double</li> <li>+ getC(): double</li> <li>+ getD(): double</li> <li>+ getE(): double</li> <li>+ getF(): double</li> <li>+ isSolvable(): boolean</li> <li>+ getX(): double</li> <li>+ getY(): double</li> </ul>

9.13

Location
<ul style="list-style-type: none"> <li>+ row: int</li> <li>+ column: int</li> <li>+ max_value: double</li> </ul>

Test Location
locateLargest(double[][] a): Location